

Quanser Srv02 Instructor Manual

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Quanser Srv02 Instructor Manual

USER MANUAL SRV02 Rotary Servo Base Unit Set Up and Configuration Developed by: Jacob Apkarian, Ph.D., Quanser Michel Lévis, M.A.Sc., Quanser Hakan Gurocak, Ph.D., Washington State University CAPTIVATE. MOTIVATE. GRADUATE. Solutions for teaching and research. Made in Canada. INFO@QUANSER.COM +1-905-940-3575 QUANSER.COM

SRV02 User Manual - Naval Postgraduate School

Setup the SRV02 in the high-gear configuration as explained in [5]. 2. Place the gyroscope module on top of the SRV02 plant such that the servo output shaft inserts the hole on the bottom platform of the gyroscope module and it can freely rotate about the shaft. Page 10: Wiring Procedure Experiment Platform: Quanser SRV02 with Gyroscope module 5.1.

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SRV02-Series ROTPEN - Rotary Pendulum User Manual 1. Description The rotary pendulum module consists of a flat arm which is instrumented with a sensor at one end such that the sensor shaft is aligned with the longitudinal axis of the arm. A fixture is supplied to attach the pendulum to the sensor shaft. The opposite end of the

SRV02-Series Rotary Pendulum - Engineering

Document Number 703 ♦ Revision 1.0 ♦ Page 10 SRV02 Modeling Laboratory - Instructor Manual 0 1 2 3. The load attached to the motor shaft includes a 24-tooth gear, two 72-tooth gears, and a single 120-tooth gear along with any other external load that is attached to the load shaft.

Rotary Experiment #01: Modeling SRV02 Modeling using QuaRC

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Quanser Instructor Manual Rotary Experiment

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The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control experiments. It is ideally suited to introduce basic control concepts and theories on an easy-to-use and intuitive platform. Use it on its own to perform several experiments, or expand the scope of this unit by adding on other modules to teach an even wider ...

Rotary Servo Base Unit - Quanser

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Solutions - Quanser

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Power Amplifier: Quanser UPM 1503/2405, or equivalent. Data Acquisition Board: Quanser Q8, Q4, or equivalent. Rotary Servo Plant: Quanser SRV02, SRV02-T, SRV02- E, SRV02- EHR, or SRV02-ET. Ball and Beam Module: Quanser BB01 Module Remote Sensor (optional) Quanser SS01 Module ... Page 11 BB01 User Manual Cable Designation Description 5-pin-DIN ...

QUANSER SRV02 BALL AND BEAM USER MANUAL Pdf Download.

SRV02 2D Ball Balancer Laboratory - Instructor Manual Pbb(s) = X(s) Θ(s) [2] and the SRV02 transfer function is Ps(s) = Θ(s) Vm(s). [3] The 1DBB transfer function describes the displacement of the ball with respect to the load angle of the servo. In the next few sections, the time-based motion equations are developed and, from these

Rotary Experiment #17: 2D Ball Balancer

With the SRV02 Base Unit, you can select from 10 add-on modules to create experiments of varying complexity across a wide range of topics, disciplines and courses. All of the experiments/workstations are compatible with MATLAB®/Simulink®. To request a demonstration or a quote, please email info@quanser.com. ©2011 Quanser Inc.

Ten modules to teach controls from the basic to advanced ...

01 - SRV02 Modeling - Student Manual.pdf This laboratory guide contains pre-lab and in-lab exercises demonstrating how to model the Quanser SRV02 rotary plant. The in-lab exercises are explained using the QuaRC software. setup_srv02_exp01_md1.m The main Matlab script that sets the SRV02 motor and sensor parameters.

Rotary Experiment #01: Modeling

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Rotary Flexible Link

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Quanser Rotary Pendulum Workbook

Quanser-developed ABET-aligned Courseware Included The Rotary Flexible Link module comes with Quanser-developed courseware standardized for ABET evaluation criteria. The workbook with exercises, together with quick start resources, a comprehensive User Manual, pre-designed controllers and a system model allow you to get your lab running faster ...

Quanser Rotary Flexible Link | AYVA Educational Solutions

This manual demonstrates how to design QuaRC controllers for the Quanser SRV02 system. Using QuaRC blocks, several Simulink model are designed to send a voltage to the SRV02, read the load gear angle using a potentiometer and an encoder, and measured the speed of the load shaft using the tachometer.